

# Yanliang Han

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## LANGUAGES AND TECHNOLOGIES

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- C++; C; Java; C#; ASP.NET; PHP; Python; HTML; CSS; JavaScript; SQL; OCaml; Smalltalk; XML Schema.
- Algorithms; Stored Procedure; Indexing; Matlab; Visual Studio; SQL Server; MySQL; Pharo; Netbeans; Eclipse; Linux; SVN; GitHub; TFS; OpenCV.

## EMPLOYMENT

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**Graduate Assistant**      **Database and Information Systems Laboratory in Univ. of Illinois**      **Jan 2012 - May 2012**

- Reduced time to render the data list by 80% by redesigning an existing recursive algorithm.
- Developed front and back ends for User Authentication and Password Encryption modules.
- Integrated TextCube, TopicCube algorithms into the NASA eventCube Data Mining system.

**Software Development Eng. Intern**      **Microsoft Corp.**      **Sep 2011 - Dec 2011**

Global Information Management Platform for China Guangfa Bank (CGB)

- Improved overall performance by 20% by leading a team of 4 in the department of Consulting Services and executing Web Performance Testing, Load Testing and Performance Analysis.
- Designed the XML validation schema and implement the workflow of Semi-automatic Batch Import, Audit and Publish, with Optimized Stored Procedures.
- Designed and implement the Advanced Search and Statistic Management Modules with User Defined Controls, Indexing and Optimized Stored Procedure, to help make scientific, grounded decisions.

## EDUCATION

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**Champaign, IL**      **University of Illinois at Urbana-Champaign**      **Spring 2012 - Fall 2013**

**M.C.S. in Computer Science**      GPA: 3.04 (2013 Summer 3.67)

- Advanced Coursework (*Most challenging ones, more than required are taken for interest*): Advanced Data Mining; Computer Vision; Applied Cryptography; Object Oriented Programming and Design; Independent Study.
- Breadth Coursework: Text Information Systems; Database Systems; Programming Languages and Compilers; UI Design.

**Guangzhou, P.R.C.**      **Sun Yat-sen University (SYSU)**      **Fall 2007 - Spring 2011**

**B.E. in Software Engineering**      In-major GPA: 3.43

*Cumulative GPA for the 2<sup>nd</sup> and 3<sup>rd</sup> academic year: 3.63*

- Selected Coursework: Algorithms; Computer Vision; Unified Communication; Software Engineering; Numerical Method; Operating Systems; Database System Principle; Information Security; Linux Analyze and Application.

## TECHNICAL EXPERIENCE

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- **Algorithms Fantasy C++ library (2013):** Built randomized-Quicksort 190% efficient than the mature Merge-sort; Designed Two-way Selection-sort that is 160% efficient than the original; Binary search tree; Rotated array Stack.
- **Panorama Stitching, 3D Reconstruction and Affine Factorization (2013).** Handles panorama picture shooting features similar to the one in Apple iOS7 by Feature detection, RANSAC and Homography Transform.
- **Illini Tutor Search (2012).** Selected demonstration in class with full credit. Full featured Tutor searching web application with Advanced Search, Auto tutor-matching and extensive database design.
- **Team Leader in Mobile Multiparty Authentication System (MMAS) (2010).** Lead my team to win the 3rd Prize in National Information Security Contest among over 500 top competitors. Implement the MIT Kerberos.
- **Object Oriented Tic-tac-toe (2013).** Smalltalk-based Ultimate Tic-tac-toe Implementation with Seaside framework. With a series of AI support.

## AWARDS

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- 2008-2010 Twice awarded 3<sup>rd</sup>-Prize Scholarship for Academic Excellence by SYSU
- 2009-2010 3<sup>rd</sup> Prize in National Information Security Contest issued by The Ministry of Education
- 2009-2010 3<sup>rd</sup> Prize in ACM Programming Contest held by SYSU
- 2009-2010 3<sup>rd</sup> Prize in Mobile Terminal Software Innovation Contest
- 2007-2008 Winning Prize in Software Innovation Contest held by SYSU
- 2008-2009 Top 7 in Men's 50m Backstroke Race of SYSU Swimming Contest
- 2008-2009 Top 7 in Men's 200m Breaststroke Race of SYSU Swimming Contest

## APPENDIX

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# Yanliang Han

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Guangzhou, P.R.C.

Sun Yat-sen University

Fall 2007 - Spring 2011

B.E. in Software Engineering

In-major GPA: 3.43

- Math Coursework: Numerical Method; Linear Algebra; Discrete Mathematics; Calculus; Probability Theory and Mathematical Statistics.
- CS Coursework: Data Structure and Algorithms; Human Computer Interaction; Computer Vision and Graph Understanding; Unify Communication; Software Engineering; Database System Principle; Information Security; Linux Analyze and Application; Advanced E-business; ERP Enterprise Application; Operating Systems; Computer Organizations and Architecture; Digital Circuits.
- Economics Coursework: Family Business Administration; Strategic Administration.

## DEMOS

- Algorithms Fantasy C++ library: <https://github.com/oliverwreath/Algorithms>
- Panorama Stitching (Computer Vision(CV) Series): <https://github.com/oliverwreath/CV-Matlab>
- Illini Tutor Search (ITS): <http://fourgrad.yanliangh.org/>
  - o ITS Report: <https://wiki.engr.illinois.edu/display/cs411sp12/FourGrads+Final+Report>
  - o ITS Video Demo: <http://www.youtube.com/watch?v=0LILG0sJjjM>
- Latest Resume & Personal Website: <http://yanliangh.org/docs/Resume.pdf>
- Some ICPC code: <https://github.com/oliverwreath/ICPC-C-Plus-Plus>